

SIGNIFICANT PERMIT REVISION DESCRIPTION

This Class I, Title V significant permit revision for Tucson Electric Power (TEP), Springerville Generating Station (SGS) authorizes the company to install and operate four new evaporative water spray (EWS) systems on five evaporation ponds at SGS. SGS is located 10 miles north of Springerville off U.S. Highway 191 in Springerville, Apache County, Arizona. The evaporation ponds are used to process facility wastewater from the cooling tower blowdown and other sources. The EWS systems will enhance the evaporation from the five ponds and ensure that the minimum pond freeboard required by the facility's aquifer protection permit is maintained.

The new equipment will result in an increase in the potential emission of particulate matter by 1,978 tons per year and hazardous air pollutants by 20.4 pounds per year.

The changes meet all the requirements for a significant permit revision as listed in A.A.C. R 18-2-320.

ADDENDUM (SIGNIFICANT REVISION) NO. 47190 TO AIR QUALITY PERMIT NO. 32008

**For
Tucson Electric Power, Springerville Generating Station**

Attachment "B"

SPECIFIC CONDITIONS

Condition XXIII shall be added to Attachment B as follows:

XXIII EVAPORATIVE WATER SPRAY SYSTEMS (EWS)

A. General Requirements

1. The Permittee shall be authorized to install, maintain and operate four evaporative water spray systems (EWS) at the Evaporative Ponds East and West (for Unit 3) and Evaporative Ponds 1, 2 and 3 (for Units 1 and 2).
[A.A.C. R18-2-402.A]
2. The Permittee shall install, maintain, and operate the EWS according to the manufacturer's specifications.
[A.A.C. R18-2-406.A.4]
3. The Permittee shall not emit gaseous or odorous materials from equipment, operations or premises under his control in such quantities as to cause air pollution.
[A.A.C. R18-2-730.D]
4. Materials including solvents or other volatile compounds, paints, acids, alkalies, pesticides, fertilizers and manure shall be processed, stored, used and transported in such a manner and by such means that they will not evaporate, leak, escape or be otherwise discharged into the ambient air so as to cause or contribute to air pollution. Where means are available to reduce effectively the contribution to air pollution from evaporation, leakage or discharge, the installation and use of such

control methods, devices or other equipment shall be mandatory.

[A.A.C. R18-2-730.F]

5. Where a stack, vent or other outlet is at such a level that fumes, gas mist, odor, smoke, vapor or any combination thereof constituting air pollution is discharged to adjoining property, the Director may require the installation of abatement equipment or the alteration of such stack, vent or other outlet by the Permittee to a degree that will adequately dilute, reduce or eliminate the discharge of air pollution to adjoining property.

[A.A.C. R18-2-730.G]

B. Opacity Limit

The Permittee shall not cause or allow to be discharged into the atmosphere from the EWS any emissions which exhibits opacity greater than 20%, as determined by Method 9. If the presence of uncombined water is the only reason for an exceedance of the opacity standard, the exceedance shall not constitute a violation.

[A.A.C. R18-2-702.B and -702.C]

C. Permit Shield

Compliance with this Section shall be deemed compliance with A.A.C. R18-2-702.B, A.A.C. R18-2-702.C., A.A.C. R18-2-730.D, A.A.C. R18-2-730.F and A.A.C. R18-2-730.G

[A.A.C.R18-2-325]

Attachment “C”: EQUIPMENT LIST

**SIGNIFICANT REVISION NO. 47190
TO AIR QUALITY PERMIT NO. 32008**

**For
Tucson Electric Power, Springerville Generating Station**

The following shall be added to the equipment list in Attachment C of Operating Permit No. 32008

| Equipment | Description | Size | Serial Number | Model | Date of Manufacture |
|---|--------------------|-------------|--------------------------|--------------|--------------------------------|
| Four Evaporative Spray Water Systems | TBD | 2,000 gpm | TBD | TBD | TBD |